EMULEX

PDP-11/LSI-11 DIAGNOSTIC MEDIA

USER'S MANUAL

FOR ALL EMULEX PRODUCTS

PRELIMINARY



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MEDIA WARRANTY: (Return to Factory) - Media not covered by on-site warranty is warranted for thirty (30) days from date of shipment. The customer is responsible for return of media to Emulex and Emulex for freight associated with replacement media being returned to the customer.

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INTRODUCTION

Emulex offers PDP-11/LSI-11 Diagnostic Distribution Kits to ensure that our PDP-11/LSI-11 products are in good working order and have been properly installed. This document describes the PDP-11/LSI-11 Diagnostic Media for all Emulex Products.

This document is divided into five sections:

Section One GENERAL DESCRIPTION: This section describes the PDP-11/LSI-11 Diagnostic Distribution Kits for all Emulex Products, including diagnostic media

and documentation.

Section Two LOADING PROCEDURES: This section describes the

procedures to load the diagnostic programs.

Section Three NAMING CONVENTIONS: This section describes the

Emulex naming conventions used to identify the

diagnostics.

Section Four DIAGNOSTIC MEDIA CONTENTS: This section lists

the diagnostic programs contained on the media.

Section Five DIAGNOSTICS FOR EMULEX PRODUCTS: This section

lists the diagnostic programs by Emulex product.

OVERVIEW

The PDP-ll/LSI-ll Diagnostic Media for all Emulex Products contains the diagnostic programs that may be used to test all Emulex products that are used in PDP-ll/LSI-ll applications.

Most Emulex peripheral controllers can use standard Digital Equipment Corporation (DEC) diagnostics for operational testing because Emulex controllers emulate DEC controllers. Some of these standard DEC diagnostics have been modified so that they can be used with Emulex controllers which have special capabilities not found in the DEC controllers. Some Emulex controllers use Emulex diagnostic programs.

GENERAL DESCRIPTION

DISTRIBTUION KITS

Emulex offers four PDP-11/LSI-11 Diagnostic Distribution Kits for all Emulex Products. Each kit includes:

- Diagnostic media
- Documentation

Diagnostic Media

The Emulex diagnostic programs and modified DEC diagnostic programs are supplied on bootable media which contains a bootable image of the XXDP+ Diagnostic Supervisor.

Table 1-1 lists and describes the diagnostic media included in ths kit.

Table 1-1. PDP-11/LSI-11 Diagnostic Distribution Kits for all Emulex Products

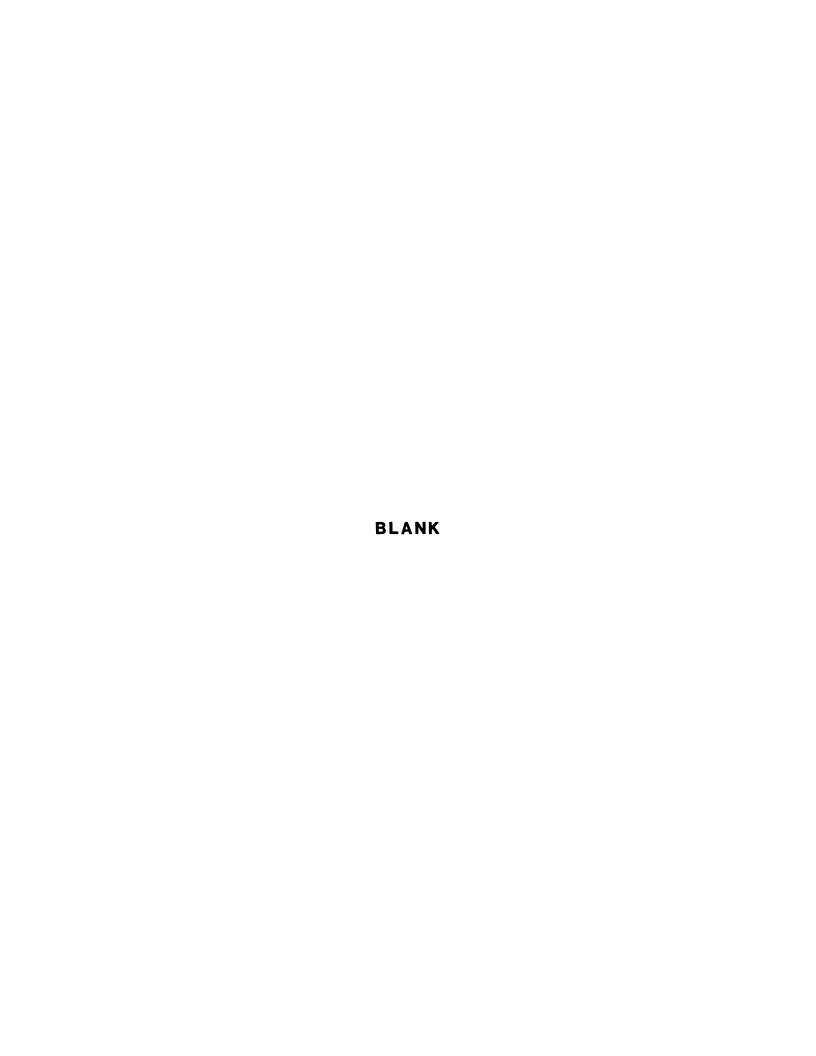
Kit Number	Media Number	Model Number	Media Type
PX9951801-01	PX9960305	MTR-08T	0.5-inch, 9-track magnectic tape reel, 800 bpi, MT bootstrap
PX9951801-02	PX9960306	MTR-16T	0.5-inch, 9-track magnectic tape reel, 1600 bpi, MT bootstrap
PX9951801-03	PX9960307	MTR-16S	0.5-inch, 9-track magnectic tape reel, 1600 bpi, MS bootstrap
PX9951801-04	PX9960418	MTC-06S	0.25-inch Sentinel tape cartridge, MS bootstrap

Documentation

The PDP-ll/LSI-ll Diagnostic Distribution Kits for all Emulex Products include the documentation listed in Table 1-2.

Table 1-2. Documentation

Part Number	Description
PX9950901	PDP-11/LSI-11 Diagnostic Media User's Manual for all Emulex Products
PD9950902	Emulex MSCP/SCSI Disk Formatter Program User's Manual
PD9950903	Emulex UDA50 Subsystem Reliability Program User's Manual



OVERVIEW

This section describes the procedures to load and run the diagnostic programs distributed on the diagnostic media.

LOADING AND RUNNING DIAGNOSTICS

After you have bootstrapped the diagnostic media, the XXDP+Diagnostic Supervisor prompts for information about the configuration of your system. For example:

CLEARING MEMORY
CHMxxA0 XXDP+ xx MONITOR nnK
BOOTED VIA UNIT: 0
ENTER DATE: (DD-MMM-YY): 14-FEB-85
RESTART ADDR: 153726

50 HZ? N LSI? N

THIS IS THE XXDP+. TYPE "H" OR "H/L" FOR DETAILS.

The . is the Diagnostic Supervisor's prompt. From this prompt you may either execute a diagnostic or an XXDP+ utility program. (The utility program is not supplied on Emulex diagnostic media.) Diagnostics are either loaded or run under the XXDP+ Diagnostic Supervisor.

LOAD(L) Loads a diagnostic into memory, but does not start execution. This is usually done when patches need to be applied.

Example: .L SXCXOA

START(S) Starts execution of the diagnostic in memory.

Example: .S 200

RUN(R) The run command performs a LOAD and START command in sequence.

Example: .R SXCXOA or .R SXCXOA, 204

The first example loads and starts the diagnostic at location 200; the second example loads and starts the diagnostic at location 204.

LOADING PROCEDURES

Most diagnostics are started at address zero (200), but some have a built-in dialog mode that can be started at address 204. For example:

- .R SXCX0A,204
- .L SXCXOA
- .S 204

OVERVIEW

Emulex has created a special naming convention to label the modified versions of the DEC diagnostics and the Emulex diagnostics. This section describes that convention.

DIAGNOSTIC NAME

All diagnostic programs are named in a manner that allows the user to call up the desired version of a given diagnostic by the controller type and model number. Each diagnostic program has a six-character name followed by either a ".BIN" or a ".BIC" extension. If the diagnostic program name includes a .BIN extension, then you may use that diagnostic to build a command file under the XXDP+ Diagnostic Supervisor. Each character of the diagnostic name has a unique meaning as defined below:

Character #1: Controller type

S = Disk Controllers (SCXX)

U = Disk Controllers (UCXX)

T = Tape Controllers (TCXX)

C = Communication Controllers (CSXX)

Character #2: CPU type

0 = LSI-11/02

1 = LSI-11/23, all PDP-11 including 11/70s

X = Runs on all CPUs

Character #3: Controller model

A = (Disk) RP02/RP03 emulations

B = (Disk) RM02/RM03/RM05/RM80/RP04/RP05/RP06 emulations

C = (Disk) RK06/RK07 emulations

L = (Disk) RL01/RL02 emulations

M = (Disk) MSCP protocol emulations

M = (Tape) TMll emulations

S = (Tape) TSll emulations

H = (Comm) DHll emulations

V = (Comm) DV11 emulations

Z = (Comm) DZ11 emulations

NAMING CONVENTIONS

Character #4: Submodel designator for character #3 (ie.Al, A2,...,Bl, B2,...,BX, CX, LX, MX, SX, HX, VX, ZX)

If there is no submodel designator use "X":

RP02/3 emulations, use AX
RM02/3/5/RM80/RP04/5/6 emulations, use BX
RK06/7 emulations, use CX
RL01/2 emulations, use LX
TM11 emulations, use MX
TS11 emulations, use SX
DH11 emulations, use HX

DV11 emulations, use VX DZ11 emulations, use ZX

DHV11 emulations, use HV

Character #5: Test number for the model designated by character #3. See subsection titled Test Numbers (Character #5).

Character #6: Version of the test. See subsection titled Test Versions (Character #6).

(Disk only) X = Self sizing diagnostic (Tape and Comm) X = Standard version

For Example

The diagnostic ClH21A:

- C It is a communications controller diagnostic.
- 1 It is designed to run on LSI-11/23 and all PDP-11 CPUs.
- H It tests a DHll emulation.
- 2 It uses submodel designation 2, (for example, it could be used to test a CS11/H2 controller).
- 1 It is a comprehensive test.
- A It is a version A (standard DH11 emulation).

Test Numbers (Character #5)

Disk	"A" models: 0 = Emulex RP02/03 Multi-function Test 8 = RP02/03 Formatter 9 = RP02/03 Multidrive Exerciser	(EMULEX) (ZRP2C0) (ZRP1B0)
Disk	"B1" & "B3" models: 8 = RM02/03/05 Formatter 9 = RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
Disk	"B2" & "B4" models: 8 = RP04/05/06 Formatter 9 = RP04/05/06 Multidrive Exerciser	(ZRJBB0) (ZRJDC0)
Disk	"B5" models: 8 = RM80 Formatter 9 = RM80 Performance Exerciser	(ZRNJAO) (ZRNAAO)
Disk	<pre>"C" models: 0 = Emulex RK06/07 Multi-function Test 8 = RK06L Cartridge Formatter 9 = RK611/06 Performance Exerciser</pre>	(EMULEX) (ZR6LC0) (ZR6PC0)
Disk	"L" models: 8 = RL01/02 Bad Sector File Tool 9 = RL01/02 Performance Exerciser	(ZRLMB0) (ZRLKB2)
Disk	"M" models: 7 = RD/RX Exerciser 8 = Emulex MSCP Formatter 9 = Emulex MSCP Performance Exerciser	(ZRQAAO) (EMULEX) (EMULEX)
Tape	<pre>"M" series: l = Multi-drive Data Reliability Exerciser</pre>	(ZTMHFO)
Tape	"S" series: 1 = Coupler Repair Diagnostic 2 = Data Reliability	(ZTSB0) (ZTSHC0)
Commu	unication "H" series: 1 = DHll Comprehensive Test 2 = DHll Data Reliability Test	(ZDH MD0) (ZDH ND0)
Commu	nication "V" series: 1 = Basic Test & Rom Installation Exerciser 2 = DV11 Rom Test, Part 1 3 = DV11 Rom Test, Part 2 4 = DM11 Modem Control 5 = Asynchronous Line Card Test	(ZDVAB1) (ZDVCD1) (ZDVDC1) (ZDVEC1) (ZDVFA0)

NAMING CONVENTIONS

Communication "Z" series:

1 = DZ11 Line Asynchronous Multiplexer (ZDZAG0)

Communication "HV" Series (DHV11):

1 = DHV11 Function Test Part 1 (VDHAAO)

2 = DHV11 Function Test Part 2 (VDHBAO)

3 = DHV11 Function Test Part 3 (VDHCAO)

Test Versions (Character #6)

This character usually implies different patch parameters to the standard version. However, if the diagnostic is an Emulex program, this character reflects the revision level of the program.

Disk "Al" models: A = Standard RP02/RP03. 80MB SMD.

Disk "A2" models:
A = Standard RP02, and
Expanded RP03 (609 logical cylinders). 80 MB SMD.

Disk "A3" models:

A = Standard RP02/RP03. 24MB MMD.

B = Contracted RP02 (102 logical cylinders). 12MB MMD.

Disk "A4" models:
A = Contracted RP02
(131 logical cylinders). 32, 64, 96MB CMD.

Disk "A5" models:

A = Contracted RP03 (390 logical cylinders). Fujitsu M2201.

Disk "A6" models:

A = Standard RP02/RP03. 75MB Memorex 612.

Disk "A7" models:

A = Standard RP02/RP03. 250MB Memorex 612.

B = Expanded RP03 (609 logical cylinders). 75MB Memorex 612.

Disk "A8" models:

A = Expanded RP02/Expanded RP03. Okidata 3301-03, -05 (also Kennedy).

Disk "A9" models:

A = Expanded RP02/Expanded RP03.

```
Disk "Bl" & "B3" models:
      A = Standard RM02/RM03 or RM05
          (823 cylinders, 5 tracks, 32 sectors, for RMO2/3)
          (823 cylinders, 19 tracks, 32 sectors, for RMO5)
      B = Expanded RM02/RM03
          (823 cylinders, 19 tracks, 32 sectors)
      C = Contracted RM02/RM03
          (815 cylinders, 5 tracks, 32 sectors)
      D = Expanded RM02/RM03
          (815 cylinders, 19 tracks, 32 sectors)
      E = Standard RM0 2/RM03
          (823 cylinders, 10 tracks, 32 sectors)
      F = Standard RM02/RM03
          (with modification for Fujitsu Eagle disk drive)
      X = Self-sizing RM02/RM03.
          These diagnostics "READ" the configuration
          parameters from the controller and adjust the
          diagnostics automatically.
Disk "B2" & "B4" models:
      A = Standard RP06
          (815 cylinders, 19 tracks, 22 sectors).
      B = Standard RP06
          (815 cylinders, 19 tracks, 22 sectors).
      D = Expanded RP06
          (815 cylinders, 19 tracks, 32 sectors).
          Only tests #3, #8, and #9 exists in "D" versions.
      E = Standard RP06
          (with modification for Fujitsu Eagle disk drive)
      X = Self-sizing RP04/5/6.
          These diagnostics "READ" the configuration
          parameters from the controller and adjust the
          diagnostics automatically.
Disk "B5" models:
      A = Standard RM80.
Disk "C" models:
      A = Standard RK06/RK07.
Disk "L" Models:
      A = Standard RL01/02.
Disk "M" models:
      A = Standard MSCP class disk
          (MSCP automatically self sizes).
```

NAMING CONVENTIONS

Tape "M" series.

A = Standard TMll emulation.

Tape "S" series.

A = Standard TSll emulation.

Communication "H" series.

A = Standard DHll emulation.

B = Standard DHll with expanded silo option (128 words)

C = Standard DH11 with expanded silo option (256 words)

Communication "V" series.

A = Standard DV11 emulation.

Communication "Z" series.

A = Standard DZll emulation.

Communication "HV" series.

A = Standard DHVll emulation.

OV ERV IEW

The diagnostic media in each PDP-11 and LSI-11 Diagnostic Distribution Kit contains a set of system files and a set of diagnostic programs.

SYSTEM FILES

The following systems files are contained on the diagnostic media as described below:

MMDP.SAV	TM02/TM03 Magtape Boot Monitor	(TM tape only)
MSDP.SAV	TSll Magtape Boot Monitor	(TS tape only)
MTDP.SAV	TMll Magtape Boot Monitor	(TM tape only)

HDxxx0.SYS XXDP+ Driver for particular media (where xxx is the logical device name)

```
HSAAC4.SYS Diagnostic Supervisor
HSAAAO.SYS Diagnostic Supervisor
HUDIAO.SYS Directory Program (Use .D command)
HELP.TXT EMULEX Help Text (Use .H command)
```

DIAGNOSTIC PROGRAMS

This section is a complete list of all diagnostic programs contained on the media. (Section Five lists the diagnostic programs by Emulex product type.)

Table 4-1 lists the diagnostic programs by Emulex name, program title, and DEC name.

Table 4-1. Diagnostic Programs

Emulex	Diagnostic	DEC
Name	Title	Name
C1H21A	DHll Comprehensive Test	Z DH MDO
C1H21B	DHll Comprehensive Test	Z DH MDO
C1H21C	DHll Comprehensive Test	Z DH MDO
C1H22A	DHll Data Reliability Test	Z DH ND 0
C1H23A	DHll Echo Test	Z DHJB O
ClHVlA	DHVll Function Test Part l	VDH AAO
C1HV2A	DHVll Function Test Part 2	VDHB A0
C1HV3A	DHVll Function Test Part 3	VDH CAO
ClHXlA	DHll Comprehensive Test	Z DH MDO
C1HX2A	DHll Data Reliability Test	Z DH ND 0
ClVXlA	Basic Test & ROM Installation Exerciser	Z DV AB 1
ClVX2A	DV11 ROM Test Part 1	Z DV CD1
C1VX3A	DV11 ROM Test Part 2	ZDVDCl
ClVX4A	DMll Modem Control	Z DV EC1
ClVX5A	Asynchronous Line Card Test	Z DV FAO
ClZllA	DZĪl Line Asyncronisis Multiplexer Test	Z DZ AG 0
	_	
S1A18A	RP02/03 Formatter	ZRP2C0
S1A19A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1 A2 8 A	RP02/03 Formatter	ZRP2C0
S1A29A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1 A3 8 A	RP02/03 Formatter	ZRP2C0
S1A39A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1 A4 8 A	RP02/03 Formatter	ZRP2C0
SlA49A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1 A5 8 A	RP02/03 Formatter	ZRP2C0
S1A59A	RP02/03 Multi-drive Exerciser	ZRP1B0
SlA68A	RP02/03 Formatter	ZRP2C0
S1A69A	RP02/03 Multi-drive Exerciser	ZRP1B0
SlA78A	RP02/03 Formatter	ZRP2C0
SlA79A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1A88A	RP02/03 Formatter	ZRP2C0
S1A89A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1 A9 8 A	RP02/03 Formatter	ZRP2C0
SlA99A	RP02/03 Multi-drive Exerciser	ZRP1B0
S1AX0A	Emulex RP02/03 Multi-function Test	EMULEX
Slax8a	RP02/03 Formatter	ZRP2C0
S1AX9A	RP02/03 Multi-drive Exerciser	ZRP1B0
L	l	

continued on next page

Table 4-1. Diagnostic Programs (continued)

Sibi			T
SIB18A	Emulex	Diagnostic	DEC
S1B18B	Name	Title	Name
S1B18B			ļ
SIB18C			
S1B18D			ZRMAC0
SIB18E	S1B18C		ZRMAC0
SIB18X	1	•	ZRMAC0
S1B19A	I		ZRMAC0
S1B19B	SlB18X		ZRMAC0
S1B19C	S1B19A		ZRMUB1
S1B19D	S1B19B		ZRMBB0
S1B19E RM0 2/03 Performance Exerciser ZRMBB0 S1B19X RM0 2/03 Performance Exerciser ZRMBB0 S1B24A RP04/5/6 Mechanical & Read/Write Test ZRJAB0 S1B24B RP04/5/6 Mechanical & Read/Write Test ZRJAB0 S1B24C RP04/5/6 Mechanical & Read/Write Test ZRJAB0 S1B28A RP04/5/6 Formatter ZRJBB0 S1B28B RP04/5/6 Formatter ZRJBB0 S1B28C RP04/5/6 Formatter ZRJBB0 S1B28D RP04/5/6 Formatter ZRJBB0 S1B29A RP04/5/6 Formatter ZRJBB0 S1B29B RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B29C RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B29D RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B38A RM02/03/05 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B39A RM02/03 Formatter ZRMB0 S1B39B RM02/03 Performance Exerciser </td <td>S1B19C</td> <td></td> <td>ZRMBB0</td>	S1B19C		ZRMBB0
S1B19X RM02/03 Performance Exerciser ZRMBB0 S1B24A RP04/5/6 Mechanical & Read/Write Test ZRJABO S1B24B RP04/5/6 Mechanical & Read/Write Test ZRJABO S1B24C RP04/5/6 Mechanical & Read/Write Test ZRJABO S1B28A RP04/5/6 Formatter ZRJBBO S1B28B RP04/5/6 Formatter ZRJBBO S1B28C RP04/5/6 Formatter ZRJBBO S1B28D RP04/5/6 Formatter ZRJBBO S1B29A RP04/5/6 Formatter ZRJBBO S1B29B RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29C RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29D RP04/5/6 Multi-drive Exerciser ZRJDCO S1B38A RM02/03/05 Formatter ZRMLB1 S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B39A RM02/03 Formatter ZRMACO S1B39A RM02/03 Performance Exerciser ZRMBBO S1B39D RM02/03 Performance Exerciser <td>S1B19D</td> <td></td> <td>ZRMBB0</td>	S1B19D		ZRMBB0
S1B24A			ZRMBB0
S1B24B	SlBl9X	RM02/03 Performance Exerciser	ZRMBB0
S1B24B			
S1B24C S1B24D RP04/5/6 Mechanical & Read/Write Test S1B28A RP04/5/6 Formatter S1B28B RP04/5/6 Formatter S1B28C RP04/5/6 Formatter S1B28D RP04/5/6 Formatter S1B28D RP04/5/6 Formatter S1B29A RP04/5/6 Multi-drive Exerciser S1B29B RP04/5/6 Multi-drive Exerciser S1B29C RP04/5/6 Multi-drive Exerciser S1B29D RP04/5/6 Multi-drive Exerciser S1B29D RP04/5/6 Multi-drive Exerciser S1B38A RM02/03/05 Formatter S1B38B RM02/03 Formatter S1B38C RM02/03 Formatter S1B38B RM02/03 Formatter S1B38B RM02/03 Formatter S1B38C RM02/03 Formatter S1B38C RM02/03 Formatter S1B38D RM02/03 Formatter S1B38C RM02/03 Formatter S1B39C RM02/03 Formatter S1B39B RM02/03 Performance Exerciser SRMBB0 S1B39C RM02/03 Performance Exerciser SRMBB0 S1B39D RM02/03 Performance Exerciser SRMBB0	S1B24A		ZRJABO
S1B24D RP04/5/6 Mechanical & Read/Write Test ZRJABO S1B28A RP04/5/6 Formatter ZRJBBO S1B28B RP04/5/6 Formatter ZRJBBO S1B28C RP04/5/6 Formatter ZRJBBO S1B28D RP04/5/6 Formatter ZRJBBO S1B29A RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29B RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29C RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29D RP04/5/6 Multi-drive Exerciser ZRJDCO S1B38A RM02/03/05 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B39A RM02/03 Formatter ZRMBDO S1B39B RM02/03 Performance Exerciser ZRMBBO S1B39C RM02/03 Performance Exerciser ZRMBBO S1B39B RM02/03 Performance Exerciser ZRMBBO			ZRJABO
S1B28A RP04/5/6 Formatter ZRJBBO S1B28B RP04/5/6 Formatter ZRJBBO S1B28C RP04/5/6 Formatter ZRJBBO S1B28D RP04/5/6 Formatter ZRJBBO S1B29A RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29B RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29C RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29D RP04/5/6 Multi-drive Exerciser ZRJDCO S1B38A RM02/03/05 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B39B RM02/03 Formatter ZRMBDO S1B39B RM02/03 Performance Exerciser ZRMBBO S1B39C RM02/03 Performance Exerciser ZRMBBO S1B39D RM02/03 Performance Exerciser ZRMBBO S1B39E RM02/03 Performance Exerciser ZRMBBO	1		ZRJABO
S1B28B RP04/5/6 Formatter ZRJBBO S1B28C RP04/5/6 Formatter ZRJBBO S1B28D RP04/5/6 Formatter ZRJBBO S1B29A RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29B RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29C RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29D RP04/5/6 Multi-drive Exerciser ZRJDCO S1B38A RM02/03/05 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38B RM02/03 Formatter ZRMACO S1B39A RM02/03 Formatter ZRMACO S1B39B RM02/03 Performance Exerciser ZRMBBO S1B39C RM02/03 Performance Exerciser ZRMBBO S1B39E RM02/03 Performance Exerciser ZRMBBO	S1B24D		ZRJABO
S1B28C RP04/5/6 Formatter ZRJBB0 S1B28D RP04/5/6 Formatter ZRJBB0 S1B29A RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B29B RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B29C RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B29D RP04/5/6 Multi-drive Exerciser ZRJDC0 S1B38A RM02/03/05 Formatter ZRMLB1 S1B38B RM02/03 Formatter ZRMAC0 S1B38C RM02/03 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B38B RM02/03 Formatter ZRMAC0 S1B39B RM02/03 Formatter ZRMBC0 S1B39B RM02/03 Performance Exerciser ZRMBB0 S1B39C RM02/03 Performance Exerciser ZRMBB0 S1B39D RM02/03 Performance Exerciser ZRMBB0 S1B39E RM02/03 Performance Exerciser ZRMBB0	S1B28A		ZRJBB0
S1B28D RP04/5/6 Formatter ZRJBBO S1B29A RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29B RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29C RP04/5/6 Multi-drive Exerciser ZRJDCO S1B29D RP04/5/6 Multi-drive Exerciser ZRJDCO S1B38A RM02/03/05 Formatter ZRMLB1 S1B38B RM02/03 Formatter ZRMACO S1B38C RM02/03 Formatter ZRMACO S1B38D RM02/03 Formatter ZRMACO S1B38E RM02/03 Formatter ZRMACO S1B39A RM02/03 Formatter ZRMACO S1B39B RM02/03 Performance Exerciser ZRMBBO S1B39C RM02/03 Performance Exerciser ZRMBBO S1B39D RM02/03 Performance Exerciser ZRMBBO S1B39E RM02/03 Performance Exerciser ZRMBBO	I control of the cont		
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S1B39CRM02/03 Performance ExerciserZRMBB0S1B39DRM02/03 Performance ExerciserZRMBB0S1B39ERM02/03 Performance ExerciserZRMBB0	1		
S1B39D RM02/03 Performance Exerciser ZRMBB0 S1B39E RM02/03 Performance Exerciser ZRMBB0			1
S1B39E RM02/03 Performance Exerciser ZRMBB0			1
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S1B39X RM02/03 Performance Exerciser ZRMBB0	1	1	1
	S1B39X	RM02/03 Performance Exerciser	ZRMBB0

continued on next page

DIAGNOSTICS

Table 4-1. Diagnostic Programs (continued)

Name Title S1B44B RP04/5/6 Mechanical & Read/Write Test S1B44C RP04/5/6 Mechanical & Read/Write Test S1B44D RP04/5/6 Mechanical & Read/Write Test S1B48B RP04/5/6 Formatter S1B48C S1B48C RP04/5/6 Formatter S1B48D RP04/5/6 Formatter S1B49B RP04/5/6 Multi-drive Exerciser S1B49C RP04/5/6 Multi-drive Exerciser S1B49C RP04/5/6 Multi-drive Exerciser S1B49D RP04/5/6 Multi-drive Exerciser S1B49D RP04/5/6 Multi-drive Exerciser S1B58A RM80 Formatter S1B59A RM80 Performance Exerciser ZRMAA0
S1B44CRP04/5/6 Mechanical & Read/Write TestZRJABOS1B44DRP04/5/6 Mechanical & Read/Write TestZRJABOS1B48BRP04/5/6 FormatterZRJBBOS1B48CRP04/5/6 FormatterZRJBBOS1B48DRP04/5/6 FormatterZRJBBOS1B49BRP04/5/6 Multi-drive ExerciserZRJDCOS1B49CRP04/5/6 Multi-drive ExerciserZRJDCOS1B49DRP04/5/6 Multi-drive ExerciserZRJDCOS1B58ARM80 FormatterZRJDCOS1B59ARM80 Performance ExerciserZRNJAO
S1B44CRP04/5/6 Mechanical & Read/Write TestZRJABOS1B44DRP04/5/6 Mechanical & Read/Write TestZRJABOS1B48BRP04/5/6 FormatterZRJBBOS1B48CRP04/5/6 FormatterZRJBBOS1B48DRP04/5/6 FormatterZRJBBOS1B49BRP04/5/6 Multi-drive ExerciserZRJDCOS1B49CRP04/5/6 Multi-drive ExerciserZRJDCOS1B49DRP04/5/6 Multi-drive ExerciserZRJDCOS1B58ARM80 FormatterZRNJAOS1B59ARM80 Performance ExerciserZRNAAO
S1B44DRP04/5/6 Mechanical & Read/Write TestZRJABOS1B48BRP04/5/6 FormatterZRJBBOS1B48CRP04/5/6 FormatterZRJBBOS1B48DRP04/5/6 FormatterZRJBBOS1B49BRP04/5/6 Multi-drive ExerciserZRJDCOS1B49CRP04/5/6 Multi-drive ExerciserZRJDCOS1B49DRP04/5/6 Multi-drive ExerciserZRJDCOS1B58ARM80 FormatterZRNJAOS1B59ARM80 Performance ExerciserZRNAAO
S1B48BRP04/5/6 FormatterZRJBB0S1B48CRP04/5/6 FormatterZRJBB0S1B48DRP04/5/6 FormatterZRJBB0S1B49BRP04/5/6 Multi-drive ExerciserZRJDC0S1B49CRP04/5/6 Multi-drive ExerciserZRJDC0S1B49DRP04/5/6 Multi-drive ExerciserZRJDC0S1B58ARM80 FormatterZRNJA0S1B59ARM80 Performance ExerciserZRNAA0
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S1B48D S1B49B S1B49C S1B49CRP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser RP04/5/6 Multi-drive ExerciserZRJDC0 ZRJDC0S1B49DRP04/5/6 Multi-drive ExerciserZRJDC0S1B58A S1B59ARM80 Formatter RM80 Performance ExerciserZRNJA0
S1B49C S1B49DRP04/5/6 Multi-drive Exerciser RP04/5/6 Multi-drive ExerciserZRJDC0 ZRJDC0S1B58A S1B59ARM80 Formatter RM80 Performance ExerciserZRNJA0 ZRNAA0
S1B49DRP04/5/6 Multi-drive ExerciserZRJDC0S1B58ARM80 FormatterZRNJA0S1B59ARM80 Performance ExerciserZRNAA0
S1B58A RM80 Formatter ZRNJA0 S1B59A RM80 Performance Exerciser ZRNAA0
S1B59A RM80 Performance Exerciser ZRNAA0
CIDMON DM02/02/05 Formatton
SIBM8A RM02/03/05 Formatter ZRMLB1
S1BM8X RM02/03 Formatter ZRMAC0
S1BM9A RM02/03/05 Performance Exerciser ZRMUB1
S1BM9X RM02/03 Performance Exerciser ZRMBB0
S1C18A RK061 Cartridge Formatter ZR6LC0
S1C19A RK611 Performance Exerciser ZR6PC0
S1CX0D Emulex RK06/07 Multi-function Test EMULEX
S1CX8A RK061 Cartridge Formatter ZR6LC0
S1CX9A RK611 Performance Exerciser ZR6PC0
S1LX8A RL01/02 Bad Sector File Tool ZRLMB0
S1LX9A RL01/02 Performance Exerciser ZRLKB2
SXAXOA Emulex RP02/03 Multi-function Test EMULEX
SXBX0A Emulex RM02/03/05/RP04/05/06/RM80
Formatter EMULEX
SXCXOD Emulex RK06/07 Multi-function Test EMULEX
TlMXlA Multi-drive Data Reliability Exerciser ZTMHF0
TISXIA Coupler Repair Diagnostic ZTSIB0
T1SX2A Data Reliability ZTSHC0
UlLX0B Emulex SABRE Disk Chrs & Init Prgm EMULEX
Ullx8A RL01/02 Bad Sector File Tool ZRLMB0
UllX9A RL01/02 Performance Exerciser ZRLKB2
UlMX7A RD/RX Exerciser ZRQAA0
UlMX8B Emulex MSCP/SCSI Formatter EMULEX
UlMX9B Emulex UDA50 Subsystem Reliability EMULEX

Section Five DIAGNOSTICS FOR EMULEX PRODUCTS

OVERVIEW

This section lists the diagnostics used by specific Emulex products. (See Section Four for a complete list of diagnostics.)

DISK DIAGNOSTICS

SCOT

SC01/Al	Maps 3 logical RP02s onto an 80mb disk	
(S1A18A)	RP02/03 Formatter	(ZRP2C0)
(S1A19A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)
SC01/A2	Maps an expanded logical RP03 onto an 80mb d	isk
(S1A28A)	RP02/03 Formatter	(ZRP2C0)
(S1A29A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)
SC01/A3	Maps a reduced or standard RP02 onto applica	ble media
(S1A38A)	RP02/03 Formatter	(ZRP2C0)
(S1A39A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)
SC01/A4	Maps 2,4,or 6 reduced logical RP02s onto app disk	licable
(S1A48A)	RP02/03 Formatter	(ZRP2C0)
(S1A49A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)
SC01/A5	Maps reduced logical RP03 onto 50mb disk	
(S1A58A)	RP02/03 Formatter	(ZRP2C0)
(S1A59A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)
SC01/A6	Maps standard RP02/RP03 or expanded onto app disk	licable
(S1A68A)	RP02/03 Formatter	(ZRP2C0)
(S1A69A)	RP02/03 Multi-drive Exerciser	(ZRP1B0)

SC01/A7	Maps expanded RP03 onto applicable disk	
(S1A78A) (S1A79A)	RP02/03 Formatter RP02/03 Multi-drive Exerciser	(ZRP2C0) (ZRP1B0)
SC01/A8	Maps expanded RP02 or RP03 onto applicable d	isk
(S1A88A) (S1A89A)	RP02/03 Formatter RP02/03 Multi-drive Exerciser	(ZRP2C0) (ZRP1B0)
SC01/A9	Maps logical RP02 onto applicable disk	
(S1A98A) (S1A99A)	RP02/03 Formatter RP02/03 Multi-drive Exerciser	(ZRP2C0) (ZRP1B0)
SC01/B1	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC01/Bl	Maps expanded RM02/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B18B) (S1B19B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC01/Bl	Maps contracted RM02/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	
(SlB18C) (SlB19C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC01/Bl	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B18D) (S1B19D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC01/Bl	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B18E) (S1B19E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)

SC01/B2	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC01/B2	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC01/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC01/B3	Maps standard RMO2/03 onto applicable disk	
(S1B38A) (S1B39A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC01/B3	Maps standard, expanded, or contracted RM02/0 applicable disk (patches applied to create self-sizing diagno	
(S1B38X) (S1B39X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC01/C	Maps standard RK06s onto applicable disk (823 cylinders, 2/4/6 tracks, 33 sectors)	
(S1CX8A) (S1CX9A) (S1CX0D)	RK06L Cartridge Formatter RK61l Performance Exerciser Emulex RK06/07 Multi-function Test * (refer to Emulex SC02/C diagnostic manual)	(ZR6LC0) (ZR6PC0) (EMULEX)

SC02		
SC02/A	Maps standard, expanded, or contracted RP02/0 applicable disks	03 onto
(S1AX8A) (S1AX9A) (S1AX0A)	RP02/03 Formatter RP02/03 Multi-drive Exerciser Emulex RP02/03 Multi-function Test * (refer to Emulex SC02/A diagnostic manual) Emulex RP02/03 Multi-function Test	(ZRP2C0) (ZRP1B0) (EMULEX) EMULEX
SC02/C	Maps standard RK06/07 onto applicable disks	
(S1CX8A) (S1CX9A) (S1CX0D)	RK06L Cartridge Formatter RK61l Performance Exerciser Emulex RK06/07 Multi-function Test * (refer to Emulex SC02/C diagnostic manual) Emulex RK06/07 Multi-function Test	(ZR6LC0) (ZR6PC0) (EMULEX) EMULEX
SC02/L	Maps standard RL01/02 onto applicable disks	
(S1LX8A) (S1LX9A)	RL01/02 Bad Sector File Tool RL01/02 Performance Exerciser	(ZRLMB0) (ZRLKB2)
SC03		
SC03/BX	Maps standard, expanded, or contracted RM02/applicable disk (patches applied to create self-sizing diagnostics)	
(S1B18X) (S1B19X) (SXB X0A)	RM02/03 Formatter RM02/03 Performance Exerciser Emulex RM02/03/05/RP04/05/06/RM80	(ZRMACO) (ZRMBBO)
(SXBXOA)	Formatter Emulex RM02/03/05/RP04/05/06/RM80 Formatter	EMULEX EMULEX
SC03/BX	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
(SXBXOA)	Emulex RM02/03/05/RP04/05/06/RM80 Formatter	EMULEX

SC03/BX	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B) (SXBX0A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRJAB0) (ZRJBB0) (ZRJDC0) EMULEX
SC03/BX	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C) (SXBX0A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRJAB0) (ZRJBB0) (ZRJDC0) EMULEX
SC03/BX	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D) (SXBX0A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRJAB0) (ZRJBB0) (ZRJDC0) EMULEX
SC03/BX	Maps standard RM80 onto applicable disk	
(S1B58A) (S1B59A) (SXBX0A)	RM80 Formatter RM80 Performance Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRNJAO) (ZRNAAO) EMULEX
SC04		
SC04/C	Maps standard RK06/07 onto applicable disks	
(S1CX8A) (S1CX9A)	RK06L Cartridge Formatter RK61l Performance Exerciser	(ZR6LC0) (ZR6PC0)
SC04/L	Maps standard RL01/02 onto applicable disks	
(S1LX8A) (S1LX9A)	RL01/02 Bad Sector File Tool RL01/02 Performance Exerciser	(ZRLMB0) (ZRLKB2)

UC01		
UC01/L	Maps standard RL02s on SABRE disk system	
(U1LX8A) (U1LX9A) (U1LX0B)	RL01/02 Bad Sector File Tool RL01/02 Performance Exerciser Emulex SABRE Disk Characteristics and Initialization Program	(ZRLMB0) (ZRLKB2) (EMULEX)
UC02		
UC02/M1	Maps standard MSCP class disks on disks in Er Packaged Subsystems	mulex
(U1MX7A) (U1MX8B) (U1MX9B)	RD/RX Exerciser Emulex MSCP/SCSI Disk Formatter Emulex UDA50 Subsystem Reliability	(ZRQAAO) (EMULEX) (EMULEX)
UC03		
UC03/M1	Maps standard MSCP class disks on disks in Er Packaged Subsystems	nulex
(U1MX7A) (U1MX8B) (U1MX9B)	RD/RX Exerciser Emulex MSCP/SCSI Disk Formatter Emulex UDA50 Subsystem Reliability	(ZRQAAO) (EMULEX) (EMULEX)
scll		
SC11/B1	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC11/B1	Maps expanded RM02/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B18B) (S1B19B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B1	Maps contracted RM02/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	
(S1B18C) (S1B19C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)

SC11/B1	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B18D) (S1B19D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B1	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B18E) (S1B19E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B2	Maps standard RP06 onto applicable disk (for prom revisions A-I only) (815 cylinders, 19 tracks, 22 sectors)	
(S1B24A) (S1B28A) (S1B29A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC11/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC11/B2	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC11/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC11/B3	Maps standard RM02/03/05 onto applicable dis (823 cylinders, 5 tracks, 32 sectors)	k
(S1B38A) (S1B39A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)

SC11/B3	Maps expanded RM02/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B38B) (S1B39B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B3	Maps contracted RM02/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	
(S1B38C) (S1B39C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B3	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B38D) (S1B39D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B3	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B38E) (S1B39E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC11/B4	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B44B) (S1B48B) (S1B49B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJABO) (ZRJBBO) (ZRJDCO)
SC11/B4	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B44C) (S1B48C) (S1B49C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC11/B4	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B44D) (S1B48D) (S1B49D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)

scll/c	Maps standard RK06s onto applicable disk (823 cylinders, 2/4/6 tracks, 33 sectors)	
(S1CX8A) (S1CX9A)	RK06L Cartridge Formatter RK61l Performance Exerciser	(ZR6LC0) (ZR6PC0)
SC12		
SC12/A	Maps standard, expanded, or contracted RP02/0 applicable disks	03 onto
(S1AX8A) (S1AX9A) (S1AX0A) (SXAX0A)	RP02/03 Formatter RP02/03 Multi-drive Exerciser Emulex RP02/03 Multi-function Test * (refer to Emulex SC02/A diagnostic manual) Emulex RP02/03 Multi-function Test	(ZRP2C0) (ZRP1B0) (EMULEX) EMULEX
scl2/c	Maps standard RK06/07 onto applicable disks	
(S1CX8A) (S1CX9A) (S1CX0D)	RK06L Cartridge Formatter RK61l Performance Exerciser Emulex RK06/07 Multi-function Test * (refer to Emulex SC02/C diagnostic manual) Emulex RK06/07 Multi-function Test	(ZR6LC0) (ZR6PC0) (EMULEX) EMULEX
SC12/L	Maps standard RL01/02 onto applicable disks	
(S1LX8A) (S1LX9A)	RL01/02 Bad Sector File Tool RL01/02 Performance Exerciser	(ZRLMB0) (ZRLKB2)
SC21		
SC21/Bl	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC21/B1	Maps expanded RM02/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B18B) (S1B19B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC21/B1	Maps contracted RMO2/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	
(S1B18C) (S1B19C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)

SC21/B1	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B18D) (S1B19D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC21/B1	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B18E) (S1B19E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC21/B1	Maps standard, expanded, or contracted RM02/applicable disk (patches applied to create self-sizing diagn	
(S1B18X) (S1B19X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC21/B2	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC21/B2	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC21/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC21/BM	Maps standard RM02/03/05 onto applicable dis	k
(S1BM8A) (S1BM9A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)

SC21/BM	Maps standard, expanded, or contracted RM02/0 applicable disk (patches applied to create self-sizing diagno	
(S1BM8X) (S1BM9X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC21/C1	Maps standard RK06s onto applicable disk (823 cylinders, 2/4/6 tracks, 33 sectors)	
(S1C18A) (S1C19A)	RK06L Cartridge Formatter RK61l Performance Exerciser	(ZR6LC0) (ZR6PC0)
SC31		
SC31/BX	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A) (SXBX0A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser Emulex RM02/03/05/RP04/05/06/RM80	(ZRMLB1) (ZRMUB1)
	Formatter	EMULEX
SC31/BX	Maps standard, expanded, or contracted RMO 2/0 applicable disk (patches applied to create self-sizing diagno	
(S1B18X) (S1B19X) (SXBXOA)	RM02/03 Formatter RM02/03 Performance Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRMACO) (ZRMBBO) EMULEX
SC31/BX	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
(SXBXOA)	Emulex RM02/03/05/RP04/05/06/RM80 Formatter	EMULEX
SC31/BX	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors	
(S1B24C) (S1B28C) (S1B29C) (SXBX0A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Emulex RM02/03/05/RP04/05/06/RM80	(ZRJAB0) (ZRJBB0) (ZRJDC0)
(2221011)	Formatter	EMULEX

SC31/BX	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D) (SXBX0A)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRJABO) (ZRJBBO) (ZRJDCO) EMULEX
SC31/BX	Maps standard RM80 onto applicable disk	
(S1B58A) (S1B59A) (SXBX0A)	RM80 Formatter RM80 Performance Exerciser Emulex RM02/03/05/RP04/05/06/RM80 Formatter	(ZRNJAO) (ZRNAAO) EMULEX
SC70		
SC70/B2	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJABO) (ZRJBBO) (ZRJDCO)
SC70/B2	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJABO) (ZRJBBO) (ZRJDCO)
SC70/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC70/B3	Maps standard RM02/03/05 onto applicable dis (823 cylinders, 5 tracks, 32 sectors)	k
(S1B38A) (S1B39A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1)

SC70/B3	Maps expanded RM02/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B38B) (S1B39B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC70/B3	Maps contracted RM02/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	
(S1B38C) (S1B39C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC70/B3	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B38D) (S1B39D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC70/B3	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B38E) (S1B39E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC70/B3	Maps standard, expanded, or contracted RMO2/applicable disk	03 onto
	(patches applied to create self-sizing diagn	ostic)
(S1B38X) (S1B39X)		ostic) (ZRMACO) (ZRMBBO)
•	(patches applied to create self-sizing diagn RM02/03 Formatter	(ZRMACO)
(S1B39X)	(patches applied to create self-sizing diagn RM02/03 Formatter RM02/03 Performance Exerciser Maps standard RP06 onto applicable disk	(ZRMACO)
(S1B39X) SC70/B4 (S1B44B) (S1B48B)	(patches applied to create self-sizing diagn RM02/03 Formatter RM02/03 Performance Exerciser Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors) RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter	(ZRMACO) (ZRMBBO) (ZRJABO) (ZRJABO)
(S1B39X) SC70/B4 (S1B44B) (S1B48B) (S1B49B)	(patches applied to create self-sizing diagn RM02/03 Formatter RM02/03 Performance Exerciser Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors) RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Maps expanded RP06 onto applicable disk	(ZRMACO) (ZRMBBO) (ZRJABO) (ZRJABO)
(S1B39X) SC70/B4 (S1B44B) (S1B48B) (S1B49B) SC70/B4 (S1B44C) (S1B48C)	(patches applied to create self-sizing diagn RM02/03 Formatter RM02/03 Performance Exerciser Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors) RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors) RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter	(ZRMACO) (ZRMBBO) (ZRJABO) (ZRJBBO) (ZRJDCO) (ZRJABO) (ZRJABO)

SC71		
SC71/Bl	Maps standard RM02/03/05 onto applicable dis	k
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC71/B1	Maps expanded RMO2/03 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B18B) (S1B19B)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC71/B1	Maps contracted RM02/03 onto applicable disk (815 cylinders, 5 tracks, 32 sectors)	i.
(S1B18C) (S1B19C)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC71/Bl	Maps expanded RM02/03 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(SlB18D) (SlB19D)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC71/Bl	Maps expanded RM02/03 onto applicable disk (823 cylinders, 10 tracks, 32 sectors)	
(S1B18E) (S1B19E)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC71/Bl	Maps standard, expanded, or contracted RM02/applicable disk (patches applied to create self-sizing diagr	
(S1B18X) (S1B19X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC71/B2	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)

SC71/B2	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)	
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJABO) (ZRJBBO) (ZRJDCO)
SC71/B2	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)	
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJAB0) (ZRJBB0) (ZRJDC0)
SC71/BM	Maps standard RMO2/03/05 onto applicable disk (823 cylinders, 5 tracks, 32 sectors)	\$
(S1BM8A) (S1BM9A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC71/BM	Maps standard, expanded, or contracted RM02/0 applicable disk (patches applied to create self-sizing diagno	
(SlBM8X) (SlBM9X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC72		
SC72/BX	Maps standard RM02/03/05 onto applicable dis	c
(S1B18A) (S1B19A)	RM02/03/05 Formatter RM02/03/05 Performance Exerciser	(ZRMLB1) (ZRMUB1)
SC72/BX	Maps standard, expanded, or contracted RM02/0 applicable disk (patches applied to create self-sizing diagno	
(S1B18X) (S1B19X)	RM02/03 Formatter RM02/03 Performance Exerciser	(ZRMACO) (ZRMBBO)
SC72/BX	Maps standard RP06 onto applicable disk (815 cylinders, 19 tracks, 22 sectors)	
(S1B24B) (S1B28B) (S1B29B)	RP04/5/6 Mechanical & Read/Write Test RP04/5/6 Formatter RP04/5/6 Multi-drive Exerciser	(ZRJABO) (ZRJBBO) (ZRJDCO)

SC72/BX	Maps expanded RP06 onto applicable disk (823 cylinders, 19 tracks, 32 sectors)			
(S1B24C) (S1B28C) (S1B29C)	RP04/5/6 Mechanical & Read/Write Test (ZRJAB0) RP04/5/6 Formatter (ZRJBB0) RP04/5/6 Multi-drive Exerciser (ZRJDC0)			
SC72/BX	Maps expanded RP06 onto applicable disk (815 cylinders, 19 tracks, 32 sectors)			
(S1B24D) (S1B28D) (S1B29D)	RP04/5/6 Mechanical & Read/Write Test (ZRJAB0) RP04/5/6 Formatter (ZRJBB0) RP04/5/6 Multi-drive Exerciser (ZRJDC0)			
SC72/BX	Maps standard RM80 onto applicable disk			
(S1B58A) (S1B59A)	RM80 Formatter (ZRNJA0) RM80 Performance Exerciser (ZRNAA0)			
UC12				
UC12/M1	Maps standard MSCP class disks on disks in Emulex Packaged Subsystems			
(UlMX7A) (UlMX8B) (UlMX9B)	RD/RX Exerciser (ZRQAA0) Emulex MSCP/SCSI Disk Formatter (EMULEX) Emulex UDA50 Subsystem Reliability (EMULEX)			
UC13				
UC13/M1	Maps standard MSCP class disks on disks in Emulex Packaged Subsystems			
(UlMX7A) (UlMX8B) (UlMX9B)	RD/RX Exerciser (ZRQAA0) Emulex MSCP/SCSI Disk Formatter (EMULEX) Emulex UDA50 Subsystem Reliability (EMULEX)			
TAPE DIAGNOSTICS				
TC01				
TC01	TMll emulation			
(TlMXlA)	Multi-drive Data Reliability Exerciser (ZTMHF0)			

TC02		
TC02/FS	TS11 emulation	
(T1SX1A) (T1SX2A)	Coupler Repair Diagnostic Data Reliability	(ZTSIBO) (ZTSHCO)
TC0 5		
TC05	TS11 emulation (on 5 1/4 inch cartridge driv	7e)
(T1SX1A) (T1SX2A)	Coupler Repair Diagnostic Data Reliability	(ZTS IBO) (ZTSHCO)
TCll		
TCll	TMll emulation	
(TlMXlA)	Multi-drive Data Reliability Exerciser	(ZTMHF0)
TC12		
TC12/FS	TS11 emulation	
(T1SX1A) (T1SX2A)	Coupler Repair Diagnostic Data Reliability	(ZTSIBO) (ZTSHCO)
TC13		
TC13/FS	TS11 emulation	
(T1SX1A) (T1SX2A)	Coupler Repair Diagnostic Data Reliability	(ZTSB0) (ZTSHC0)
TC15		
TC15	TS11 emulation (on 5 1/4 inch cartridge driv	<i>r</i> e)
(T1SX1A) (T1SX2A)	Coupler Repair Diagnostic Data Reliability	(ZTS IB 0) (ZTSHC0)

COMMUNICATIONS DIAGNOSTICS

CS01		
CS01/H2	DH11 emulation	
(C1H21A) (C1H22A)	DHll Comprehensive Test DHll Data Reliability Test	(ZDH MD0) (ZDH ND0)
CS01/H2	DH11 emulation, with expanded silo option (128 words)
(ClH2lB)	DH11 Comprehensive Test	(ZDHMDO)
CS02		
CS02/H2	DH11 emulation	
(ClHXlA) (ClHX2A)	DHll Comprehensive Test DHll Data Reliability Test	(ZDH MDO) (ZDH NDO)
(C1HV1A) (C1HV2A) (C1HV3A)	DHV11 Function Test Part 1 DHV11 Function Test Part 2 DHV11 Function Test Part 3	(VDH AA0) (VDHB A0) (VDH CA0)
CS11		
CS11/H2	DH11 emulation	
(C1H21A) (C1H22A) (C1H23A)	DHll Comprehensive Test DHll Data Reliability Test DHll Echo Test	(ZDHMD0) (ZDHND0) (ZDHJB0)
CS11/H2	DH11 emulation with expanded silo option ()	128 words)
(C1H21B)	DH11 Comprehensive Test	(ZDHMDO)
CS11/V	DV11 emulation	
(C1VX1A) (C1VX2A) (C1VX3A) (C1VX4A) (C1VX5A)	Basic Test & ROM Installation Exerciser DVll ROM Test Part 1 DVll ROM Test Part 2 DMll Modem Control Asynchronous Line Card Test	(ZDVAB1) (ZDVCD1) (ZDVDC1) (ZDVEC1) (ZDVFA0)

CS21

CS21/H2	DHll	emulation	
		Comprehensive Test Data Reliability Test	(ZDH MD0) (ZDH ND0)
CS21/H2	DHll	emulation with expanded silo option	(256 words)
(C1H21C)	DHll	Comprehensive Test	(ZDHMD0)
CS21/Z	DZ 1 1	emulation	
(C1Z11A)	DZ11	Line Asynchronous Multiplexer Test	(ZDZAGO)

